

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 April 2005 (28.04.2005)

PCT

(10) International Publication Number
WO 2005/038009 A2

(51) International Patent Classification⁷: C12N 1/20, C12P
17/18, A61K 31/535 // (C12P 17/18, C12R 1:465)

Paresh [IN/IN]; C/O Shri Jagdish Chander Jitender Kumar, Brass Merchant, Chauraha Gali, Moradabad, Uttar Pradesh 244001 (IN).

(21) International Application Number:
PCT/IB2004/003380

(74) Common Representative: RANBAXY LABORATORIES LIMITED; C/O DESHMUKH, Jay R., 600 College Road East, Suite 2100, Princeton, NJ 08540 (US).

(22) International Filing Date: 15 October 2004 (15.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
1284/DEL/2003 17 October 2003 (17.10.2003) IN

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(71) Applicant (for all designated States except US): RANBAXY LABORATORIES LIMITED [IN/IN]; 19, Nehru Place, New Delhi, Delhi 110019 (IN).

(72) Inventors; and

(75) Inventors/Applicants (for US only): KUMAR, Parveen [IN/IN]; House No. 95, Sector-11, Panchkula, Ambala, Haryana 134112 (IN). SHARMA, Sunita [IN/IN]; 135-B, Pocket-4, Mayur Vihar Phase-I, New Delhi, Delhi 110091 (IN). SHUKLA, Aniruddha [IN/IN]; #6148/5,, Sector-D, Pocket-6, Vasant Kunj, New Delhi, Delhi 110070 (IN). KUMAR, Sudeep [IN/IN]; B-107 Alaknanda Apt., Rampuri, Surya Nagar, Ghaziabad, Uttar Pradesh 201011 (IN). MAURYA, Raj, Kumar [IN/IN]; Gyankhand IV/82, Indirapuram, Ghaziabad, Uttar Pradesh 201010 (IN). KATIAL, Vikas [IN/IN]; 1381, Sector-29, Noida, Uttar Pradesh 201303 (IN). MITRA, Ashoke [IN/IN]; C207, Sarita Vihar, New Delhi, Delhi 110044 (IN). GIGRAS,

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PRODUCTION OF TACROLIMUS (FK-506) USING NEW STREPTOMYCES SPECIES

(57) Abstract: The invention relates to a new microorganism *Streptomyces glaucescens* MTCC 5115 and a process for producing the immunosuppressant agent, tacrolimus (FK-506) utilizing the new microorganism *Streptomyces glaucescens* MTCC 5115. The invention also relates to pharmaceutical compositions that include the tacrolimus (FK-506) and use of said compositions for treatment or prevention of the transplantation rejection of organs or tissues such as heart, kidney, liver, medulla ossium, skin, etc.

WO 2005/038009 A2